

Rittal – The System.

Faster – better – everywhere.



SK 3311.410 Liquid Cooling Package

State: 21/06/2025 (Source: rittal.com/gr-en)

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



SK 3311.410 - Liquid Cooling Package LCP rack DX, LCP rack DX/FC

Rack-based cooling on one to two IT racks. Continuous cooling output adjustment due to the use of an output-controlled compressor in the LCP Rack DX (evaporator) An external condenser is required to operate the unit.



Features

| | |
|--------------|---|
| Model No. | SK 3311.410 |
| Benefits | <div>Maximum energy efficiency due to EC fan technology and IT-based control</div> <div>Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans</div> <div>Control of the server inlet temperature</div> <div>Thanks to the speed-regulated compressor, the cooling output is ideally adapted to actual requirements</div> <div>With redundant temperature sensor integrated at the air end as standard</div> <div>Specific maintenance of the LCP DX due to separation of cooling and server racks</div> |
| Applications | <div>Ideal for IT cooling of small and medium-sized locations</div> <div>One or two racks can be cooled separately</div> |

Features

| | |
|--|--|
| Function principle | <p>The LCP draws in the air at the sides at the rear of the server enclosures, cools it using high-performance compact impellers, and blows the cooled air back into the front part of the server enclosure at the sides</p> <p>Absorbed thermal energy is emitted to the ambient air at the external condenser location, without heating up the installation room</p> |
| Material | Sheet steel, spray-finished |
| Options | <p>Humidifier</p> <p>Dehumidification and reheater</p> <p>Condensate drain pump</p> <p>Low-temperature/high-temperature condenser (-40 °C/+53 °C)</p> |
| Design | Rack cooling |
| Monitoring | <p>Direct connection of the unit via SNMP over Ethernet</p> <p>Integration into RiZone</p> |
| Total cooling output to DIN EN 14511 | <p>Useful cooling output L22 L30: 12 kW</p> <p>Useful cooling output L22 L45: 10 kW</p> |
| Total cooling output/Number of fan modules | 12 kW/4 |
| Modulation range | 3 - 12 kW |
| Air throughput (unimpeded air flow) | At 50 Hz: 4,800 m³/h |
| Dimensions | <p>Width: 300 mm</p> <p>Height: 2,000 mm</p> <p>Depth: 1,000 mm</p> |
| To fit enclosure type | TS IT |
| Installation in bayed enclosure suite | Flush |
| Rated operating voltage | <p>380 V - 480 V, 3~, 60 Hz</p> <p>400 V, 3~, 50 Hz</p> |
| Rated current max. | At 50 Hz: 7.5 A |
| Max. cooling output | 12 kW |
| Type of electrical connection | Connection clamp |

Features

| | |
|---|--|
| Duty cycle | 100 % |
| Cooling medium | Refrigerant |
| EC fan | Yes |
| Fans may be exchanged with the system operational | Yes |
| Temperature control | Linear fan control Inverter-controlled compressor |
| Start-up current (LRA) | 11 A |
| Pre-fuse | Miniature circuit-breaker/fuse: 20 A |
| Storage temperature range | -20 °C...50 °C |
| Operating temperature range | 15 °C...35 °C |
| Noise level | At 50 Hz: 69 dB(A) |
| Refrigerant/cooling medium | Refrigerant: R410A Cooling medium: Refrigerant |
| Protection category to IEC 60 529 | IP 20 |
| Options | Humidifier Dehumidification and reheater Condensate drain pump Low-temperature/high-temperature condenser (-40 °C/+53 °C) |
| Packs of | 1 pc(s). |
| Net weight | 193 |
| Gross weight | 207 |
| Customs tariff number | 84186900 |
| EAN | 4028177691315 |
| ETIM 9 | EC002515 |
| ETIM 8 | EC002515 |
| ECLASS 8.0 | 27180712 |

Approvals

Certificates

EAC

Explanations

Declaration of conformity

Tender text

Tender text for LCP Rack DX, 3311.410 WHD (mm)
300x2000x1000

LCP Rack DX:

IT-optimised design, providing ideal support for